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PHOTOGRAPHIC INTERPRETATION REPORT



RADIO FACILITIES NEAR KUN-MING, CHINA



ARMY



NAVY



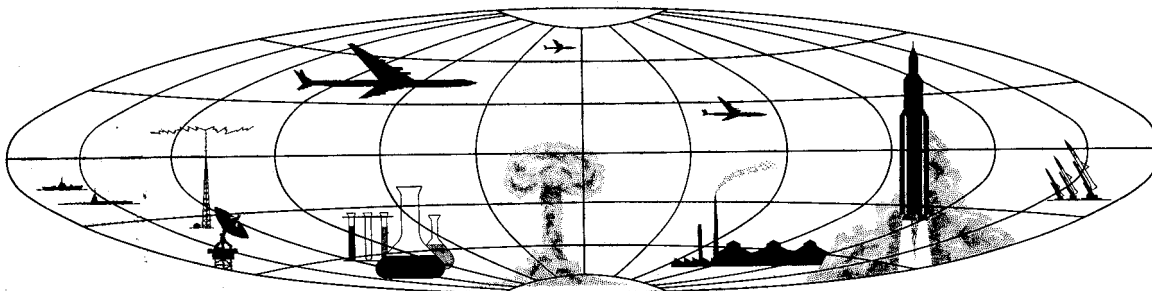
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NPIC/R-1227/63

RADIO FACILITIES NEAR KUN-MING, CHINA

25X1A

25X1A A radio broadcast station, a radio communication station, and a [redacted] [redacted] have been identified on [redacted] near Kun-ming, China (Figure 1).

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RADIO BROADCAST STATION

The radio broadcast station (24-53N 102-29E), about 15.5 nm southwest of Kun-ming, is a medium- to high-frequency facility composed of three support areas serving groups of curtain antenna arrays, two directional vertical radiators, a horizontal dipole, and an omnidirectional vertical radiator (Figure 2).

Each curtain array consists of an active curtain backed by a passive curtain, suspended from pole frame towers or self-supporting towers. There are 10 groups of pole frame towers and 5 groups of self-supporting towers,

arranged according to height, spacing, and similarity of construction (Figure 2, Items Ca through Co). The directional vertical radiators (Figure 2, Items DVa and DVb) are guyed towers backed by parallel rows of towers which act as passive reflectors; antenna DVa also has buried ground radials. The horizontal dipole (Figure 2, Item HD) is suspended between guyed towers, and the omnidirectional vertical radiator (Figure 2, Item OV) is a self-supporting tower. Dimensions and operational characteristics of the antennas are given in Table 1.

Each support area contains a transmitter building, various other electronic facilities or housing and maintenance buildings, and one or two cooling ponds. Underground transmission lines connect the transmitter buildings with the antennas, but specific connections between all buildings and antennas cannot be traced.

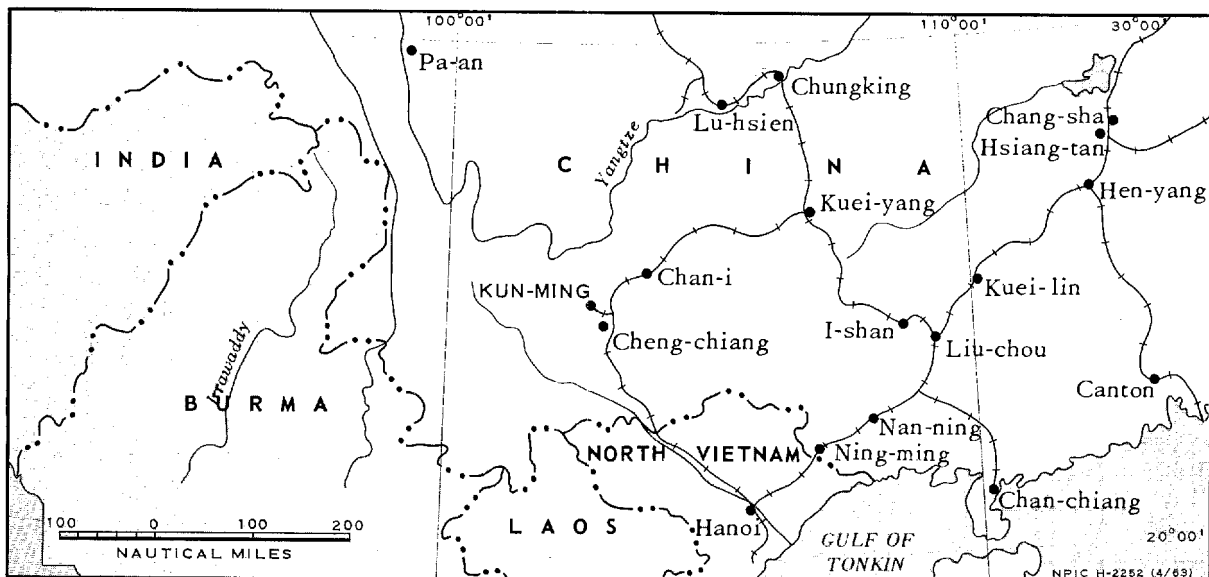


FIGURE 1. LOCATION MAP, KUN-MING, CHINA.

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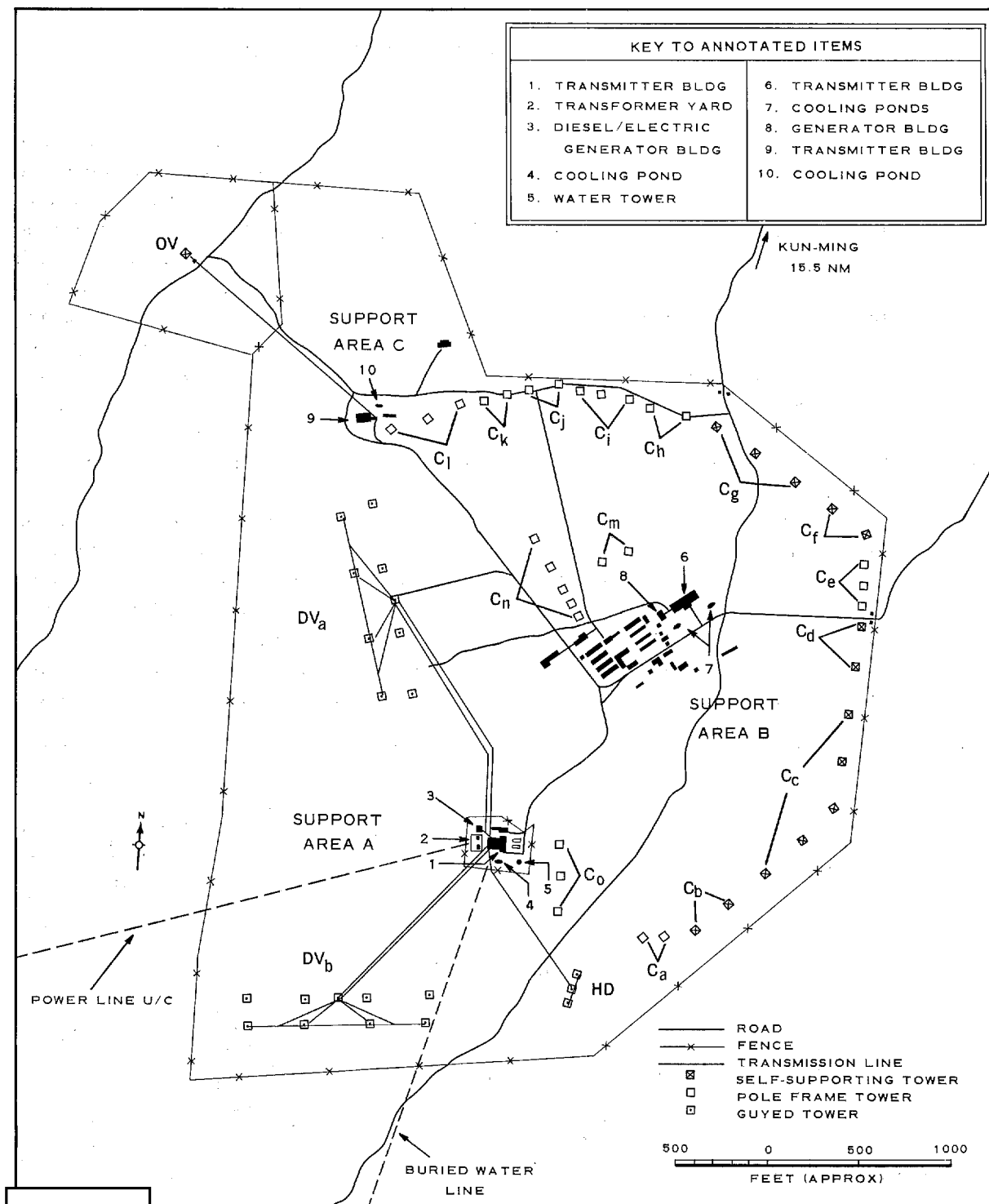


FIGURE 2. RADIO BROADCAST STATION.

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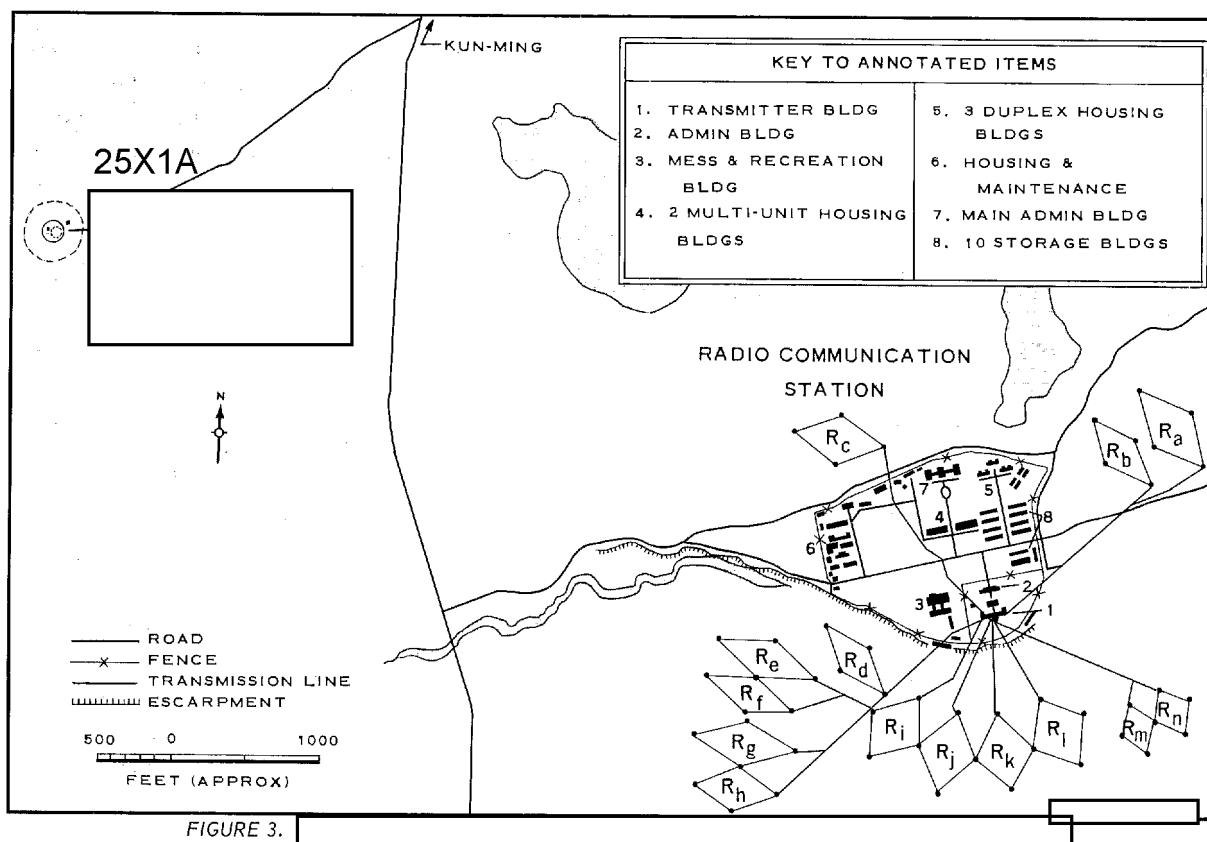


FIGURE 3.

The transmitter building in Support Area A (Figure 2, Item 1) measures 100 by 85 feet and serves antennas DVa, DVb, HD, and Co. The area also has a diesel-electric generator building, 25 by 25 feet; a transformer yard, 75 by 50 feet; a cooling pond, 50 by 20 feet; and a water tower of undetermined dimensions. Support Area B, the largest at the station, has a transmitter building (Figure 2, Item 6) which measures 155 by 55 feet and appears to serve antennas Ca through Cg. Other facilities in the area include a generator building, 50 by 30 feet; two cooling ponds, each 50 by 20 feet; and numerous housing and maintenance buildings. The transmitter building in Support Area C (Figure 2, Item 9) measures 120 by 40 feet and apparently serves antennas OV and Ch through Cn; the cooling pond in the area is [REDACTED]

RADIO COMMUNICATION STATION

The radio communication station (24-56N 102-48E), about 8.5 nm southeast of Kun-ming, consists of 14 rhombic antennas, a transmitter building measuring 180 by 30 feet, and numerous support buildings (Figure 3). The large number of storage and barracks-type support buildings suggests that, for logistical purposes, the station is located at a military garrison or storage area. The station could be a point-to-point broadcast-relay facility, but the long-range rhombic antennas (Table 2), oriented to most points of the compass, and the [REDACTED] nearby indicate that it has a radio communication function. It is also doubtful that more than one radio broadcast station would be located in the Kun-ming area.

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